



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

IMMACULATE HEART MEDIA, INC.  
1496 BELLEVUE STREET  
SUITE 202  
GREEN BAY WI 54311

Son Nguyen

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Facility Id: 4622

Call Sign: WSDZ

License File Number: BMML-20191112ABL

Grant Date **DEC 26 2019**

This license expires 3:00 a.m.  
local time, December 01, 2020.

Method of moments proof.

Subject to the provisions of the Communications Act of 1934, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:  
Local Standard Time (Non-Advanced)

Jan.	7:15 AM	5:00 PM	Jul.	4:45 AM	7:30 PM
Feb.	6:45 AM	5:30 PM	Aug.	5:15 AM	7:00 PM
Mar.	6:15 AM	6:00 PM	Sep.	5:45 AM	6:15 PM
Apr.	5:30 AM	6:30 PM	Oct.	6:15 AM	5:30 PM
May	4:45 AM	7:00 PM	Nov.	6:45 AM	4:45 PM
Jun.	4:30 AM	7:30 PM	Dec.	7:15 AM	4:45 PM

Callsign: WSDZ

License No.: BMML-20191112ABL

Name of Licensee: IMMACULATE HEART MEDIA, INC.

Station Location: BELLEVILLE, IL

Frequency (kHz): 1260

Station Class: B

Antenna Coordinates:

Day

Latitude: N 38 Deg 27 Min 31 Sec

Longitude: W 89 Deg 57 Min 41 Sec

Night

Latitude: N 38 Deg 27 Min 31 Sec

Longitude: W 89 Deg 57 Min 41 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 20.0 Night: 5.0

Antenna Input Power (kW): Day: 21.1 Night: 5.4

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 20.52 Night: 10.39

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	
1	None	57.4
2	None	57.4
3	None	57.4
4	None	57.4
5	None	57.4

Night:

Tower No.	ASRN	
1	None	57.4
2	None	57.4
3	None	57.4
4	None	57.4
5	None	57.4

## DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 1507.5 Night: 651.8

Standard RMS (mV/m/km): Day: 1584.5

Augmented RMS (mV/m/km): Night: 688.69

Q Factor: Day: 68.94 Night: 22.36

## Theoretical Parameters:

## Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	85.0
2	0.5910	63.300	170.0000	340.000	0	85.0
3	0.5010	142.100	62.4000	154.400	0	85.0
4	0.4560	278.400	61.6000	16.100	0	85.0
5	0.8850	197.000	110.8000	335.800	0	85.0

## \* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

## Theoretical Parameters:

## Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.4080	346.000	0.0000	0.000	0	85.0
2	0.5230	155.600	170.0000	340.000	0	85.0
3	0.4090	202.500	340.0000	340.000	0	85.0
4	1.0000	0.000	510.0000	340.000	0	85.0
5	0.5340	176.000	680.0000	340.000	0	85.0

## \* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

## Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	0.0	10.0	525.90
2	44.5	10.0	413.49
3	57.0	16.0	45.06
4	70.0	10.0	28.97
5	83.0	10.0	61.16
6	140.0	10.0	899.01
7	155.0	10.0	735.39
8	160.0	10.0	719.59

## Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
9	165.0	10.0	734.30
10	237.0	10.0	42.65
11	250.0	10.0	25.75
12	263.0	10.0	61.16
13	287.5	15.0	801.87
14	307.5	25.0	723.01
15	320.0	20.0	526.64
16	330.0	20.0	466.71
17	340.0	20.0	450.62
18	350.0	20.0	466.71

## Day Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 0	1
2 67.3	0.772
3 123.6	0.528
4 -71.9	0.311
5 -145.9	1.063

## Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
1 -10.7	0.409
2 158.1	0.531
3 -156.7	0.39
4 0	1
5 176	0.524

Antenna Monitor: POTOMAC INSTRUMENTS TYPE 1901-8, S/N 456

Sampling System Approved Under Section 73.68 of the Rules.

## Special operating conditions or restrictions:

- 1 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Callsign: WSDZ

License No.: BMML-20191112ABL

Special operating conditions or restrictions:

- 2 Ground system consists of 120 equally spaced, buried, copper wire radials about the base of each tower, each 55 meters long.

\*\*\* END OF AUTHORIZATION \*\*\*